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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,601	12/12/2003	Jonathan F. Smith	95-02	2496
23713	7590 10/31/2006		EXAMINER	
GREENLEE WINNER AND SULLIVAN P C 4875 PEARL EAST CIRCLE			KELLY, ROBERT M	
SUITE 200	EAST CIRCLE	•	ART UNIT	PAPER NUMBER

DATE MAILED: 10/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)				
Office Action Cummons	10/735,601	SMITH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Robert M. Kelly	1633				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wi	th the correspondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING C - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 136(a). In no event, however, may a rewill apply and will expire SIX (6) MON e. cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this co ANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>08 S</u>	Sentember 2006					
	s action is non-final.					
· <u> </u>	vance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	, ,					
4)⊠ Claim(s) <u>1-31</u> is/are pending in the application	1.					
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-31 are subject to restriction and/or	8) Claim(s) 1-31 are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documen						
2. Certified copies of the priority documen	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the price	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		1				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date Iformal Patent Application				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:					

DETAILED ACTION

Applicant's response and amendment of 9/8/06 is entered.

Claims 27-31 are newly presented.

Claims 1-31 are presently pending.

Applicant's election of Invention I is noted, however, the restriction requirement is withdrawn in favor of the following restriction requirement.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-15 and 26-31, drawn to a method of preparing alpha-viral replicon particles that encode 2 or more heterologous sequences, classified in class 435, subclass 320.1.
- II. Claims 16-19, drawn to a composition of alpha-viral particles encoding at least one heterologous sequence, classified in class 435, subclass 325.
- III. Claims 20-25, drawn to a method to immunize a human or animal comprising the administration of an alpha-viral replicon particle encoding at least one heterologous sequence, classified in class 424, subclass 93.1.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the

alphaviral particles can be made separately, or with other conditions of releasing replicons, as known in the art.

Inventions II and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the replicons may be used in other processes, e.g., protein libraries, and the method of use does not require the composition as a whole be used, but only a single alpha-viral particle.

Inventions I and III are patentably distinct. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions are not disclosed as capable of use together, and have distinct method steps to obtain distinct effects. Group I requires at least the step of introduction of alphaviral replicon nucleic acids into permissive cells for infection, while Group III requires administration of alphaviral replicon particles to a human or animal to obtain immunization. These require distinct considerations as to the administration or introduction steps, which would provide the required effects.

Moreover, because of the distinct effects and uses, which require distinct structural and functional considerations, it would pose a serious burden on the Examiner to search and examine any two inventions together. Further, even though two of the inventions are classified in the same classification, the classification is broad, encompassing all viral vectors, and hence, the

search and examination would necessarily be distinct even though within the same broad category.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

This application contains claims directed to the following groups of patentably distinct species:

If Applicant should elect Invention I:

(i) Applicant should choose a **specific** virus, bacterium, or cancer, or other specific virus, yeast, fungus, protozoan, or cancer supported by the specification, or as found in Claims 22-25.

I.e., any specific species of virus, bacterium, cancer, yeast, fungus, or protozoan claimed in the claims or supported by the specification.

If Applicant should elect Invention II:

(i) Applicant should elect a single **specific** species of tumor, parasite, pathogen, virus, yeast for antigens to be derived from, as supported by the specification. E.g., the choice of tumor is not acceptable, but ovarian cancer cell would be, as it is supported by the specification.

If Applicant should elect Invention III:

(i) Applicant should elect a single **specific** species of cancer, virus, bacteria, yeast, fungus, or protozoan, as provided in claims 22-25, or supported by the specification. E.g., the choice of tumor is not acceptable, but ovarian cancer cell would be, as it is supported by the specification.

The species are independent or distinct because the various antigens have distinct structure which provide distinct function, and therefore, would not be obvious over one and other, and further, due to such distinct structure and function, would require distinct considerations such that it would pose a serious burden on the Examiner to consider all species together.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, Claims 1, 16-21, 25-27 generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In

either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Kelly, Art Unit 1633, whose telephone number is (571) 272-0729. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Nguyen can be reached on (571) 272-0731. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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